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<u>L1</u>	(noise near5 reduc\$5) same (pixel or image) same ((difference or subtract\$5) near10 (image or pixel))	748	<u>L1</u>
<u>L2</u>	L1 same (second near6 (image or pixel))	110	<u>L2</u>
<u>L3</u>	L2 same (noise near3 reduced)	35	<u>L3</u>
<u>L4</u>	L3 same (match\$3 or correlat\$6)	1	<u>L4</u>
<u>L5</u>	(first near10 (noise near3 reduced) near10 second) same image same (subtract\$5 or difference)	9	<u>L5</u>
<u>L6</u>	(noise near2 (reduc\$5 or decreas\$5)) same (target\$3 or (region near1 interest) or roi or attention) same (image or pixel)	344	<u>L6</u>
<u>L7</u>	L6 same (group\$5 near6 pixel)	1	<u>L7</u>
<u>L8</u>	L6 same (averag\$4 near3 pixel)	19	<u>L8</u>
<u>L9</u>	L8 same ((reconstruct\$5 or reproduc\$4) near4 (image or pixel))	0	<u>L9</u>
<u>L10</u>	L8 same (subtract\$4 or difference)9	0	<u>L10</u>

<u>L11</u>	L8 same (subtract\$4 or difference)	3	<u>L11</u>
<u>L12</u>	l1 same absolute value	51	<u>L12</u>
<u>L13</u>	l1 same absolute value near3 (0.8 or 0.9 or 0.95 or 1)	3	<u>L13</u>
<u>L14</u>	l1 same (absolute value near3 (0.8 or 0.9 or 0.95 or 1))	3	<u>L14</u>
<u>L15</u>	(absolute value near3 (0.8 or 0.9 or 0.95))	73	<u>L15</u>
<u>L16</u>	L15 same (image or pixel)	4	<u>L16</u>
<u>L17</u>	(image near3 subtract\$5 near10 correlat\$6)	94	<u>L17</u>
<u>L18</u>	L17 same noise	19	<u>L18</u>

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L8 same (subtract\$4 or difference)	3

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<u>L2</u>	L1 same (second near6 (image or pixel))	110	<u>L2</u>
<u>L3</u>	L2 same (noise near3 reduced)	35	<u>L3</u>
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<u>L7</u>	L6 same (group\$5 near6 pixel)	1	<u>L7</u>
<u>L8</u>	L6 same (averag\$4 near3 pixel)	19	<u>L8</u>
<u>L9</u>	L8 same ((reconstruct\$5 or reproduc\$4) near4 (image or pixel))	0	<u>L9</u>
<u>L10</u>	L8 same (subtract\$4 or difference)9	0	<u>L10</u>

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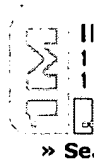
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Suhling, M.; Arigovindan, M.; Hunziker, P.; Unser, M.;

 Image Processing, IEEE Transactions on , Volume: 13 , Issue: 4 , April 2004
 Pages:484 - 495

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2 Regularized subband coding scheme
Prost, R.; Yi Ding; Baskurt, A.; Benoit-Cattin, H.;

 Image Processing, IEEE Transactions on , Volume: 8 , Issue: 4 , April 1999
 Pages:564 - 570

[\[Abstract\]](#) [\[PDF Full-Text \(836 KB\)\]](#) **IEEE JNL**
3 Noise reduction of VQ encoded images through anti-gray coding
Kuo, C.J.; Lin, C.H.; Yeh, C.H.;

 Image Processing, IEEE Transactions on , Volume: 8 , Issue: 1 , Jan. 1999
 Pages:33 - 40

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4 Nonparametric regression analysis achieved with topographic maps developed in combination with projection pursuit learning: an application to density estimation and adaptive filtering of grey-scale images
Van Hulle, M.M.;

 Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 45 , Issue: 11 , Nov. 1997
 Pages:2663 - 2672

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) **IEEE JNL**

5 SAR-ocean wave inversion using image cross spectra*Engen, G.; Johnsen, H.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 4 , July 1995

Pages:1047 - 1056

[\[Abstract\]](#) [\[PDF Full-Text \(720 KB\)\]](#) IEEE JNL

6 Image processing for electronic document storage*Cooper, A.; Kahari, W.; Such, R.;*

Computers and Digital Techniques, IEE Proceedings E [see also Computers and Digital Techniques, IEE Proceedings-] , Volume: 135 , Issue: 4 , July 1988

Pages:196 - 201

[\[Abstract\]](#) [\[PDF Full-Text \(916 KB\)\]](#) IEE JNL

7 Improved accuracy for interferometric radar images using polarimetric radar and laser altimetry data*Slatton, K.C.; Crawford, M.M.; Evans, B.L.;*

Image Analysis and Interpretation, 2000. Proceedings. 4th IEEE Southwest Symposium , 2-4 April 2000

Pages:156 - 160

[\[Abstract\]](#) [\[PDF Full-Text \(136 KB\)\]](#) IEEE CNF

8 Evaluation of a novel CCD camera for dose reduction in digital radiography*Harris, E.J.; Royle, G.J.; Speller, R.D.; Spencer, S.; Suske, W.;*

Nuclear Science Symposium Conference Record, 2000 IEEE , Volume: 3 , 15-Oct. 2000

Pages:23/53 - 23/58 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) IEEE CNF

9 A new space-adaptive regularized constrained iterative image restoration algorithms and analysis of convergence condition*Sang Hwa Lee; Choong Woong Lee;*

Image Processing, 1996. Proceedings., International Conference on , Volume 1 , 16-19 Sept. 1996

Pages:781 - 784 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(580 KB\)\]](#) IEEE CNF

10 Improving border identification in two-dimensional echocardiograms using temporal information*Choy, M.M.; Jin, J.S.;*

Engineering in Medicine and Biology Society, 1996. Bridging Disciplines for Biomedicine. Proceedings of the 18th Annual International Conference of the IEEE , Volume: 2 , 31 Oct.-3 Nov. 1996

Pages:879 - 880 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(184 KB\)\]](#) IEEE CNF

11 Similarity hypergraph representation for impulsive noise reduction*Rital, S.; Cherifi, H.;*

Video/Image Processing and Multimedia Communications, 2003. 4th EURASIP Conference focused on , Volume: 2 , 2-5 July 2003

Pages:539 - 544 vol.2

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Image Processing. 2002. Proceedings. 2002 International Conference on , Vo 3 , 24-28 June 2002

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Image Processing. 2002. Proceedings. 2002 International Conference on , Vo 1 , 22-25 Sept. 2002

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Image Processing, 2001. Proceedings. 2001 International Conference on , Vo 2 , 7-10 Oct. 2001

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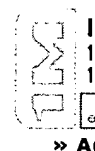
Computers in Cardiology 2001 , 23-26 Sept. 2001

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Astron. Astrophys. 336, 743-752 (1998)

... **Noise** was **reduced** in both ... Analogous to the reduction of the white-light images, first, the corresponding averaged dark **image** was **subtracted** from each **image** ...

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... The random **noise** was **reduced** using signal ... It was seen that involuntary eye movements mean that **image** registration is essential prior to averaging if good ...

www.cs.bham.ac.uk/research/proceedings/ miua2001/posters/goatman.pdf -

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TechOnLine - ESPI: A Tutorial

... **Reduced** stability requirements; Compact and portable instrumentation; Elimination of ... **Image** digital processing is usually required to remove **noise**. ...

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iros, extract X-ray source list form detector **image**

... be **subtracted**, weak sources, never more significant than '**noise**' peaks, are ... residual skyimage, the **correlation** of the **reduced** detector **image** and the ...

bepposax.gsfc.nasa.gov/bepposax/ software/wfc/Stagell/iros.html - 21k - [Cached](#) -

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refocus

... filtering this **noise** can be greatly **reduced** by selecting higher values for the **Correlation** and **Noise** parameters ... source **image** and the blurred **image** is **subtracted** ...

refocus.sourceforge.net/doc.html - 37k - [Cached](#) - [Similar pages](#)

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... Clearly, av- eraging the particle-**image** fields over several realizations and ... beyond an optimal number, the signal-to-**noise** ratio can be **reduced** by further ...

microfluidics.stanford.edu/ pubs/meinhart2000-pivtimeaveraged.pdf - [Similar pages](#)

CGS4 data files under ORAC

... we start extracting beams and spectra from the **reduced** group **image** - HDS containers ... _rnm, either, Read **Noise** Variance added. ... **Reduced** group files in \$ORAC_DATA_OUT. ...

www.jach.hawaii.edu/JACpublic/UKIRT/instruments/ cgs4/orac-dr/filetypes.html - 15k -

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HDF-S NICMOS Data Reduction / Technical Issues

... 7) The final sky **subtracted** images were flatfielded ... Mr. Staypuft ghosts is significantly **reduced** from the total, and thus the resulting **image noise** is higher. ...

www.stsci.edu/ftp/science/hdfsouth/reduc_nicmos.html - 28k - [Cached](#) - [Similar pages](#)

ACA Dark Current Calibration 2000-Nov-20

... The data were **reduced** by Rob Cameron ... For pure counting **noise**, we would expect a $1/\sqrt{N}$ decrease in these ... which searches for warm pixels at the 6x6 **image** edge ...

asc.harvard.edu/mta/ASPECT/dark_cal_2000_nov/ report.html - 9k - [Cached](#) - [Similar pages](#)

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... ensemble **correlation** to increase the signal to **noise** ratio (SNR ... the original **image**, one obtains an **image** of the ... accuracy of the median filter is **reduced** by the ...

hugin.aue.auc.dk/publ/deen2001a.pdf - [Similar pages](#)

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Automatic Detection and Characterisation of Aluminium Weld

Defects ...

... Figure 4 : Binary **image** corresponding to that of figure 3. After **correlation**, the **noise** level is **reduced** so that it is possible to apply a global ...

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UIST Spectroscopy

... _rnv, Read **Noise** Variance added. ... the weather was stable and all data are useable, you may be able to simply work with the **reduced** group **image** produced by ...

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[PDF] Multiresolution Techniques in Microscopical Image Processing

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... In modern **image** restoration, there are se- veral techniques that ... Most of the **noise** can be **reduced** by simply ... Of course, **noise** can degrade edges so much that ...

telin.rug.ac.be/~frooms/publications/GIT1002.pdf - [Similar pages](#)

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... Fortunately, this task was greatly **reduced** by the ... filter, and compare the results to the initial **image**. ... error bars represent the formal Poisson **noise** in the ...

www.ugastro.berkeley.edu/~seanl/report4.ps - [Similar pages](#)

Tool Description

... A **reduced** list of statistically dissimilar vectors is constructed ... but it is assumed that each **image** in the ... processed to have uniform random **noise** with unity ...

www.niac.man.ac.uk/Tina/docs/user_guide/node148.html - 19k - [Cached](#) - [Similar pages](#)

(IUCr) Crystallography Journals Online - search results

... process using this approach and other applications of the **image**-reconstruction method ... and becomes more serious as the signal-to-**noise** ratio is **reduced**. ...

scripts.iucr.org/cgi-bin/full_search?words=correlation%20coefficient&Action=Search - 49k - [Cached](#) - [Similar pages](#)

Chapter 2 - Data and Reduction

... frames are then divided so that, within the **noise**, the value ... The **reduced** star **image** flux can be calculated by setting an aperture on the **image** and totaling ...

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Defect Printability Measurement: Correlation to Defect Sizing ...

... black/white reversed, left/right reversed, and **reduced** to match ... What remains is an **image** of only the defect or ... which is 25 times smaller than the **noise** in a ...

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... information bits to be embedded can be substantially **reduced**. ... tolerate various kinds of document distortion and **noise**. ... Denote the new **image** as \tilde{I} , ($\tilde{I} \sim n m l i$... charybdis.mit.csu.edu.au/~mantolov/CD/ICITA2002/papers/198-2.pdf - [Similar pages](#)

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... the resulting smoothed output is **subtracted** from the ... discrimination between signal and **noise**, **reduced** mean square ... noised Output images Fig 1 : **Image** with added ... www.qub.ac.uk/ivs/pubs/tjb1.pdf - [Similar pages](#)

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... rarely return mismatches, possibly because **noise** is averaged ... **Reduced** images are also more tolerant of geometric ... images and the entire second **image** was searched ...

www.frc.ri.cmu.edu/~hpm/project.archive/robot.papers/1975.cart/1980.thesis/p06.tex.txt - 8k - [Cached](#) - [Similar pages](#)

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... **Image** Reconstruction Algorithm ... median variance of the empirically estimated system **noise** (median system ... matrices, memory requirements can be **reduced** by storing ...

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... overall brightness of **image** is **reduced** to increase ... the deterministic degradation transfer function, **noise** and signal ... lowpass segment of the **image** is **subtracted** ...

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[UDF NICMOS-Parallel Fields Information TABLE OF CONTENTS * 1.0 ...](#)

... by comparing their values to the measured **image noise**, after a ... The final **reduced** images consist of the individual ... of a single integration ramp (**image** set), a ...

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... depend on non content-related factors suchas frame size, video **noise**, and compression ... the number of pixels in the (**reduced**-resolution) **image**, as k ...

www.ee.princeton.edu/~robjoyce/research/papers/tseg_icip00.ps - [Similar pages](#)

[Change Analysis](#)

... based methods, which are sensitive to **noise**, particularly as ... **image** profiles rather than the raw **image** values; if ... but this effect is much **reduced** if correlating ...

www.fmrib.ox.ac.uk/analysis/research/siena/siena2/node7.html - 14k - [Cached](#) - [Similar pages](#)

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... Click **image** to enlarge. ... low-resolution spectrum (~75 Angstrom) has a signal-to-**noise** ratio that ... Hydrogen Beta (4861.3 A) lines in emission but **reduced** from the ...

www.aavso.org/news/var_mon_02.shtml - 25k - [Cached](#) - [Similar pages](#)

[\[PDF\] Allen Telescope Array Imaging](#)

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... retrieval) requirements can be greatly **reduced** by integrated ... Thermal **noise** appropriate for the ATA was added to ... beam and **subtracted** from the deconvolved **image**. ...

bima.astro.umd.edu/memo/memo92.pdf - [Similar pages](#)

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... (b), (a) With background **noise subtracted**. Fig. ... When the intensity of the **image** signal was **reduced** to match an acceptable reference beam inten- sity ...

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... mid frequency bands may imply **reduced** robustness EXISTING ... portion of the **image** energy **noise** is **subtracted** ... is added to the entire residual **image** regardless of ...

www.ecse.rpi.edu/CNGV/publications/1998_TR/spie55.pdf - [Similar pages](#)

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Astron. Astrophys. 336, 743-752 (1998)

... **Noise** was **reduced** in both ... Analogous to the reduction of the white-light images, first, the corresponding averaged dark **image** was **subtracted** from each **image** ...

aa.springer.de/papers/8336002/2300743/sc3.htm - 16k - [Cached](#) - [Similar pages](#)

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[PDF] Automatic registration and averaging of ophthalmic ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... The random **noise** was **reduced** using signal ... It was seen that involuntary eye movements mean that **image** registration is essential prior to averaging if good ...

www.cs.bham.ac.uk/research/proceedings/miua2001/posters/goatman.pdf -

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TechOnLine - ESPI: A Tutorial

... **Reduced** stability requirements; Compact and portable instrumentation; Elimination of ... **Image** digital processing is usually required to remove **noise**. ...

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iros, extract X-ray source list from detector **image**

... be **subtracted**, weak sources, never more significant than '**noise**' peaks, are ... residual skyimage, the **correlation** of the **reduced** detector **image** and the ...

bepposax.gsfc.nasa.gov/bepposax/software/wfc/Stagell/iros.html - 21k - [Cached](#) -

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refocus

... filtering this **noise** can be greatly **reduced** by selecting higher values for the **Correlation** and **Noise** parameters ... source **image** and the blurred **image** is **subtracted** ...

refocus.sourceforge.net/doc.html - 37k - [Cached](#) - [Similar pages](#)

[PDF] Using ASME format

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... Clearly, averaging the particle-**image** fields over several realizations and ... beyond an optimal number, the signal-to-**noise** ratio can be **reduced** by further ...

microfluidics.stanford.edu/pubs/meinhart2000-pivtimeaveraged.pdf - [Similar pages](#)

CGS4 data files under ORAC

... we start extracting beams and spectra from the **reduced** group **image** - HDS containers ... _rnv, either, Read **Noise** Variance added. ... **Reduced** group files in \$ORAC_DATA_OUT. ...

www.jach.hawaii.edu/JACpublic/UKIRT/instruments/cgs4/orac-dr/filetypes.html - 15k -

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HDF-S NICMOS Data Reduction / Technical Issues

... 7) The final sky **subtracted** images were flatfielded ... Mr. Staypuft ghosts is significantly **reduced** from the total, and thus the resulting **image noise** is higher. ...

www.stsci.edu/ftp/science/hdfsouth/reduc_nicmos.html - 28k - [Cached](#) - [Similar pages](#)

ACA Dark Current Calibration 2000-Nov-20

... The data were **reduced** by Rob Cameron ... For pure counting **noise**, we would expect a $1/\sqrt{N}$ decrease in these ... which searches for warm pixels at the 6x6 **image** edge ...

asc.harvard.edu/mta/ASPECT/dark_cal_2000_nov/ report.html - 9k - [Cached](#) - [Similar pages](#)

[\[PDF\] Paper Chemical Engineering Technology](#)

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... ensemble **correlation** to increase the signal to **noise** ratio (SNR ... the original **image**, one obtains an **image** of the ... accuracy of the median filter is **reduced** by the ...

hugin.aue.auc.dk/publ/deen2001a.pdf - [Similar pages](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Noise reduction in a statistical approach to text categorization](#)

Yiming Yang

 July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on
Research and development in information retrieval**

 Full text available: [pdf\(895.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**2** [Bitext maps and alignment via pattern recognition](#)

I. Dan Melamed

 March 1999 **Computational Linguistics**, Volume 25 Issue 1

 Full text available: [pdf\(1.63 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#)


Texts that are available in two languages (*bitexts*) are becoming more and more plentiful, both in private data warehouses and on publicly accessible sites on the World Wide Web. As with other kinds of data, the value of bitexts largely depends on the efficacy of the available data mining tools. The first step in extracting useful information from bitexts is to find corresponding words and/or text segment boundaries in their two halves (*bitext maps*). This article advances the state o ...

3 [Word sense disambiguation using a second language monolingual corpus](#)

Ido Dagan, Alon Itai

 December 1994 **Computational Linguistics**, Volume 20 Issue 4


 Full text available: [pdf\(2.57 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#)


This paper presents a new approach for resolving lexical ambiguities in one language using statistical data from a monolingual corpus of another language. This approach exploits the differences between mappings of words to senses in different languages. The paper concentrates on the problem of target word selection in machine translation, for which the approach is directly applicable. The presented algorithm identifies syntactic relations between words, using a source language parser, and maps t ...

4 [Copy detection mechanisms for digital documents](#)

Sergey Brin, James Davis, Héctor García-Molina

 May 1995 **ACM SIGMOD Record**, **Proceedings of the 1995 ACM SIGMOD international**


conference on Management of data, Volume 24 Issue 2Full text available:  [pdf\(1.51 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a digital library system, documents are available in digital form and therefore are more easily copied and their copyrights are more easily violated. This is a very serious problem, as it discourages owners of valuable information from sharing it with authorized users. There are two main philosophies for addressing this problem: prevention and detection. The former actually makes unauthorized use of documents difficult or impossible while the latter makes it easier to discover such activity. I ...

5 Special issue on machine learning approaches to shallow parsing: Shallow parsing using noisy and non-stationary training material

Miles Osborne

March 2002 **The Journal of Machine Learning Research**, Volume 2Full text available:  [pdf\(181.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Shallow parsers are usually assumed to be trained on *noise-free* material, drawn from the same distribution as the testing material. However, when either the training set is *noisy* or else drawn from a *different* distributions, performance may be degraded. Using the parsed Wall Street Journal, we investigate the performance of four shallow parsers (maximum entropy, memory-based learning, N-grams and ensemble learning) trained using various types of artificially noisy material. ...

6 Similarity in harder cases: sentencing for fraud

Ruth Murbach, Éva Nonn

August 1993 **Proceedings of the fourth international conference on Artificial intelligence and law**Full text available:  [pdf\(943.49 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We focus on one of the central concepts of case-based reasoning: similarity. In the field of sentencing, where the really decided cases are often on the harder side, similarity is multidimensional and depends less on formal rules than on various legitimate principles, objectives and factors which relate to the offender, the victim, the act and its social context. The paper presents our data base of empirically analysed cases of fraud and discusses two of the different phases completed to re ...

7 Adaptive multilingual sentence boundary disambiguation

David D. Palmer, Marti A. Hearst

June 1997 **Computational Linguistics**, Volume 23 Issue 2Full text available:  [pdf\(1.77 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)[Publisher Site](#)

The sentence is a standard textual unit in natural language processing applications. In many languages the punctuation mark that indicates the end-of-sentence boundary is ambiguous; thus the tokenizers of most NLP systems must be equipped with special sentence boundary recognition rules for every new text collection. As an alternative, this article presents an efficient, trainable system for sentence boundary disambiguation. The system, called Satz, makes simple estimates of the parts of speech of ...

8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 Voice response systems

D L. Lee, F H. Lochovsky

December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4

Full text available:  [pdf\(2.22 MB\)](#)



Additional Information: [full citation](#), [references](#), [index terms](#)

10 Special issue on using large corpora: I: Generalized probabilistic LR parsing of natural language (Corpora) with unification-based grammars

Ted Briscoe, John Carroll

March 1993 **Computational Linguistics**, Volume 19 Issue 1

Full text available:

 [pdf\(2.62 MB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

We describe work toward the construction of a very wide-coverage probabilistic parsing system for natural language (NL), based on LR parsing techniques. The system is intended to rank the large number of syntactic analyses produced by NL grammars according to the frequency of occurrence of the individual rules deployed in each analysis. We discuss a fully automatic procedure for constructing an LR parse table from a unification-based grammar formalism, and consider the suitability of alternative ...

11 Discovering models of software processes from event-based data

Jonathan E. Cook, Alexander L. Wolf

July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 3

Full text available:  [pdf\(369.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Many software process methods and tools presuppose the existence of a formal model of a process. Unfortunately, developing a formal model for an on-going, complex process can be difficult, costly, and error prone. This presents a practical barrier to the adoption of process technologies, which would be lowered by automated assistance in creating formal models. To this end, we have developed a data analysis technique that we term process discovery. Under this technique, data ...

Keywords: Balboa, process discovery, software process, tools

12 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available:  [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-

specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

13 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available:  [pdf\(3.83 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Translator writing systems

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available:  [pdf\(4.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system



15 Session: A fast partial parse of natural language sentences using a connectionist method

Caroline Lyon, Bob Dickerson

March 1995 **Proceedings of the seventh conference on European chapter of the Association for Computational Linguistics**

Full text available:  [pdf\(722.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

 [Publisher Site](#)

The pattern matching capabilities of neural networks can be used to locate syntactic constituents of natural language. This paper describes a fully automated hybrid system, using neural nets operating within a grammatic framework. It addresses the representation of language for connectionist processing, and describes methods of constraining the problem size. The function of the network is briefly explained, and results are given.



16 Novelty and topic change: Domain-independent text segmentation using anisotropic diffusion and dynamic programming

Xiang Ji, Hongyuan Zha

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(171.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a novel domain-independent text segmentation method, which identifies the boundaries of topic changes in long text documents and/or text streams. The method consists of three components: As a preprocessing step, we eliminate the *document-*




dependent stop words as well as the generic stop words before the sentence similarity is computed. This step assists in the discrimination of the sentence semantic information. Then the cohesion information of sentences in a document o ...

Keywords: anisotropic diffusion, document-dependent stop words, dynamic programming, text segmentation

17 Potpourri: Translation analysis and translation automation

Pierre Isabelle, Marc Dymetman, George Foster, Jean-Marc Jutras, Elliott Macklovitch, Francois Perrault, Xiaobo Ren, Michel Simard

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**

Full text available:  [pdf\(1.12 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

We argue that the concept of *translation analysis* provides a suitable foundation for a new generation of translation support tools. We show that pre-existing translations can be analyzed into a *structured translation memory* and describe our TransSearch bilingual concordancing system, which allows translators to harness such a memory. We claim that translation analyzers can help detect *translation errors* in draft translations and we present the results of an experiment on the ...

18 Computational learning theory: survey and selected bibliography

Dana Angluin

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Full text available:  [pdf\(2.11 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

19 Locally adaptive dimensionality reduction for indexing large time series databases

Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani

June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2

Full text available:  [pdf\(1.48 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

20 Learning from a consistently ignorant teacher

Michael Frazier, Sally Goldman, Nina Mishra, Leonard Pitt

July 1994 **Proceedings of the seventh annual conference on Computational learning theory**

Full text available:  [pdf\(1.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One view of computational learning theory is that of a learner acquiring the knowledge of a teacher. We introduce a formal model of learning capturing the idea that teachers may have gaps in their knowledge. The goal of the learner is still to acquire the knowledge of the teacher, but now the learner must also identify the gaps. This is the notion of learning from a consistently ignorant teacher. We consider the impact of knowledge gaps on learning, for




example, monotone DNF and d

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